Pergamon

Oncology Research, Vol. 6, No. 12, pp. 627–636, 1994
Copyright © 1995 Elsevier Science Ltd
Printed in the USA. All rights reserved
0965-0407/94 $9.50 + .00

ONCOLOGY RESEARCH

LIST OF CONTENTS, VOLUME 6, 1994

Vol. 6 No. 1

CONTENTS

Commentary

Thomas P. Dooley — 1 — Recent Advances in Cutaneous Melanoma Oncogenesis Research

Laboratory Research

Hiroyuki Osada, Keiji Kikuchi, Fusao Makishima and Kiyoshi Isono — 11 — Inhibitory Action of Epiderstatin on EGF-Stimulated Growth of Mouse Epidermal BALB/MK Cells without Direct Effect on Protein Kinase Activities

Yuki Hata, Alan Sandler, Patrick J. Loehrer, George W. Sledge, Jr. and George Weber — 19 — Synergism of Taxol and Gallium Nitrate in Human Breast Carcinoma Cells: Schedule Dependency

James E. Liebmann, Joyce Fisher, Diane Teague and John A. Cook — 25 — Sequence Dependence of Paclitaxel (Taxol®) Combined with Cisplatin or Alkylators in Human Cancer Cells

Graeme J. Finlay, Karen M. Holdaway and B.C. Baguley — 33 — Comparison of the Effects of Genistein and Amsacrine on Leukemia Cell Proliferation

Reference Listings in Cancer Research — 39

Instructions to Contributors — Instructions-1

Abbreviations Used in this Journal — Abbreviations-1

Vol. 6 No. 2

CONTENTS

Laboratory Research

Bharat Damle and Pankaj Desai — 49 — Dipyridamole Reverses the Resistance to Topoisomerase II Inhibotors but Not to Antimicrotubule Agents in Multidrug-Resistant Melanoma Cells

Dana T. Aftab, Jin Ming Yang and William N. Hait	**59**	Functional Role of Phosphorylation of the Multidrug Transporter (P-Glycoprotein) by Protein Kinase C in Multidrug-Resistant MCF-7 Cells
Kimanh Thi Nguyen, Bingren Liu, Kazumitsu Ueda, Michael M. Gottesman, Ira Pastan and Khew-Voon Chin	**71**	Transactivation of the Human Multidrug Resistance (MDR1) Gene Promoter by p53 Mutants
L. Jonathan Zwi, Bruce C. Baguley, John B. Gavin and William R. Wilson	**79**	Correlation Between Immune and Vascular Activities of Xanthenone Acetic Acid Antitumor Agents
Steven Grant, Amy J. Turner, Tina M. Bartimole,q Patricia A. Nelms, Victor C. Joe and W. David Jarvis	**87**	Modulation of 1-[β-D-Arabinofuranosyl] Cytosine-Induced Apoptosis in Human Myeloid Leukemia Cells by Staurosporine and Other Pharmacological Inhibitors of Protein Kinase[c]
References Listings in Cancer Research	**101**	
Instructions to Contributors	**Instructions-1**	
Abbreviations Used in this Journal	**Abbreviations-1**	

Vol. 6 No. 3

CONTENTS

Laboratory Research

Liang-Nian Song	**111**	Effects of Retinoic Acid and Dexamethasone on Proliferation, Differentiation, and Gluococorticoid Receptor Expression in Cultured Human Osteosarcoma Cells
Nandigama Krishnamachary, Liangdong Ma, Ling Zheng, Ahmad R. Safa and Melvin S. Center	**119**	Analysis of MRP Gene Expression and Function in HL60 Cells Isolated for Resistance to Adriamycin
Michael Belanich, Teck-Choon Ayi, Benjamin F.L. Li, Jeannie T. Kibitel, David W. Grob, Terri Randall, Agnes B. White, Marc L. Citron and Daniel B. Yarosh	**129**	Analysis of O^6-methylguanine-DNA methyltransferase in Individual Human Cells by Quantitative Immunofluorescence Microscopy
John M. Lucas, Margaret Bryans, Kalok Lo, Neil M. Wilkie, Mary Freshney, Donald Thornton and Jas C. Lang	**139**	The FGF-4 Promoter is Required for Transformation and is Active inBoth Embryonal and Somatic Cells
Edith A. Perez, Frank M. Hack, Thomas S. Fletcher and Ting-Chao Chou	**151**	Modulation of Intrinsic *In Vitro* Resistance to Carboplatin by Edatrexate in the A549 Human Nonsmall Cell Lung Cancer Cell Line
References Listings in Cancer Research	**157**	
Instructions to Contributors	**Instructions-1**	
Abbreviations Used in this Journal	**Abbreviations-1**	

Vol. 6 Nos. 4/5

CONTENTS

Clinical Research

Marguerite Cuny, Joëlle Simony-Lafontaine, Philippe Rouanet, Jean Grenier, Hélène Valles, Roseline Lavaill, Geneviève Louason, Annick Causse, Nadine Lequeux, Christian Thierry, Philippe Jeanteur and Charles Theillet — **169** Quantification of ERBB2 Protein Expression in Breast Cancer: Three Levels of Expression Defined by their Clinico-Pathological Correlations

Laboratory Research

Ronald D. Snyder — **177** Effect of 2′-Deoxy-2′-(fluoromethylene) cytidine on the Ultraviolet and X-ray Sensitivity of HeLa Cells

Gintaras Zaleskis, Richard L. X. Ho, Paula Diegelman, Darbie Maccubbin, Peter Ujházy, Enrico Mihich and M. Jane Ehrke — **183** Intracellular Doxorubicin Kinetics in Lymphoma Cells and Lymphocytes Infiltrating the Tumor Area *In Vivo:* A Flow Cytometric Study

Mark E. Stearns and Min Wang — **195** Immunoassays of the Metalloproteinase (MMP-2) and Tissue Inhibitor of Metalloproteinase (TIMP 1 and 2) Levels in Noninvasive and Metastatic PC-3 Clones: Effects of Taxol

Charles Y. F. Young, Patricia E. Murtha and Jianye Zhang — **203** Tumor-Promoting Phorbol Ester-Induced Cell Death and Gene Expression in a Human Prostate Adenocarcinoma Cell Line

Charles D. Smith, Michele R. Prinsep, Faith R. Caplan, Richard E. Moore and Gregory M. L. Patterson — **211** Reversal of Multiple Drug Resistance by Tolyporphin, a Novel Cyanobacterial Natural Product

David G. Alleva, Carol J. Burger and Klaus D. Elgert — **219** Increased Sensitivity of Tumor-Bearing Host Macrophages to Interleukin-10: A Counter-Balancing Action to Macrophage-Mediated Suppression

Reference Listings in Cancer Research — **229**

Instructions to Contributors — **Instructions-1**

Abbreviations Used in this Journal — **Abbreviations-1**

Vol. 6 No. 6

CONTENTS

Laboratory Research

Douglas A. Weidner and Harris Busch — **237** Antisense Phosphorothioate Oligonucleotides Direct Both Site-Specific and Nonspecific RNAse H Cleavage of *In Vitro* Synthesized p120 mRNA

Yasuo Saijo, Laszlo Perlaky, Hongmin Wang and Harris Busch — **243** Pharmacokinetics, Tissue Distribution, and Stability of Antisense Oligodeoxynucleotide Phosphorothioate ISIS 3466 in Mice

Roberto Benelli, Remy Adatia, Barbara Ensoli, William G. Stetler-Stevenson, Leonardo Santi and Adriana Albini 251 Inhibition of AIDS-Kaposi's Sarcoma Cell Induced Endothelial Cell Invasion by TIMP-2 and a Synthetic Peptide from the Metalloproteinase Propeptide: Implications for an Anti-Angiogenic Therapy

Keitaro Hasuda, Carol Lee and Ian F. Tannock 259 Antitumor Activity of Nigericin and 5-(N-ethyl-N-iso-propyl)amiloride: An Approach to Therapy Based on Cellular Acidification and the Inhibition of Regulation of Intracellular pH

Ming-Fang Cheng, Satadal Chatterjee and Nathan A. Berger 269 Schedule-Dependent Cytotoxicity of Topotecan Alone and in Combination Chemotherapy Regimens

Reference Listings in Cancer Research 281

Instructions to Contributors Instructions-1

Abbreviations Used in this Journal Abbreviations-1

Vol. 6 No. 7

CONTENTS

Laboratory Research

X.P. Zhang, M.K. Ritke, J.C. Yalowich, M.L. Slovak, J. Pelkey Ho, K.I. Collins, T. Annable, R.J. Arceci, F.E. Durr and L.M. Greenberger 291 P-glycoprotein Mediates Profound Resistance to Bisantrene

Makoto Inaba and Junko Mitsuhashi 303 Flow Cytometric Analysis of Cell-killing Actions of 5-Fluorouracil in Human Colorectal Cancer Cells

Alessandro Quattrone, Laura Papucci, Maria Morganti, Marcella Coronnello, Enrico Mini, Teresita Mazzei, Francesco Paolo Colonna, Anna Garbesi and Sergio Capaccioli 311 Inhibition of *MDR1* Gene Expression by Antimessenger Oligonucleotides Lowers Multiple Drug Resistance

Tiefeng Hu, Ronald R. Bach, Renata Horton, William H. Konigsberg and Mary B. Todd 321 Procoagulant Activity in Cancer Cells is Dependent on Tissue Factor Expression

Clinical Research

Heinz-Josef Lenz, Kathleen Danenberg, Barbara Schnieders, Erdem Goeker, Godefridus J. Peters, Tim Garrow, Barry Shane, Joseph R. Bertino and Peter V. Danenberg 329 Quantitative Analysis of Folylpolyglutamate Synthetase Gene Expression in Tumor Tissues by the Polymerase Chain Reaction: Marked Variation of Expression among Leukemia Patients

References Listings in Cancer Research 337

Instructions to Contributors Instructions-1

Abbreviations Used in this Journal Abbreviations-1

Vol. 6 No. 8

CONTENTS

Laboratory Research

Lalio P. Djondjurov, Mariana M. Andreeva, Dessislava Z. Markova and Rossen M. Donev 347 Spatial and Structural Segregation of the Transcribed and Nontranscribed Alleles of c-*myc* in Namalva-S Cells

Jerald J. Killion, Dale R. Brown, Michael R. Wilson, Mary M. Lloyd and Isaiah J. Fidler 357 Prevention of Chemotherapy- or X-irradiation-induced Monocytopenia by Oral Administration of Lipophilic Muramyl Tripeptide

Ravi K. Kancha, Mark E. Stearns and M. Mahmood Hussain 365 Decreased Expression of the Low Density Lipoprotein Receptor-Related Protein/α_2-Macroglobulin Receptor in Invasive Cell Clones Derived from Human Prostate and Breast Tumor Cells

Carlos Sonnenschein, Jozsef Szelei, Tara L. Nye and Ana M. Soto 373 Control of Cell Proliferation of Human Breast MCF7 Cells; Serum and Estrogen Resistant Variants

Masaru Kamishohara, Hiroyuki Kawai, Teruyuki Sakai, Toshiyuki Isoe, Kazumasa Hasegawa, Jun-ichiro Mochizuki, Takeshi Uchida, Shiro Kataoka, Hiroshi Yamaki, Takashi Tsuruo and Noboru Otake 383 Antitumor Activity of a Spicamycin Derivative, KRN5500, and its Active Metabolite in Tumor Cells

References Listings in Cancer Research 391

Instructions to Contributors Instructions-1

Abbreviations Used in this Journal Abbreviations-1

Vol. 6 No. 9

CONTENTS

Laboratory Research

Denis Weltin, Jean Marchal, Patrick Dufour, Edouard Potworowski, Daniel Oth and Pierre Bischoff 399 Effect of 6(5H)-phenanthridinone, an Inhibitor of Poly(ADP-ribose) Polymerase, on Cultured Tumor Cells

Maurizio Fanciulli, Marco G. Paggi, Tiziana Bruno, Carlo Del Carlo, Francesco Bonetto, Francesco P. Gentile and Aristide Floridi 405 Glycolysis and Growth Rate in Normal and in Hexokinase-Transfected NIH-3T3 Cells

Stephen P. Povoski, Weigong Zhou, Daniel S. Longnecker and Richard H. Bell, Jr. 411 Cholecystokinin Receptor Characterization and Cholecystokinin-A Receptor Messenger RNA Expression in Transgenic Mouse Pancreatic Carcinomas and Dysplastic Pancreas

Nicholas I. Obiri and Raj K. Puri 419 Characterization of Interleukin-4 Receptors Expressed on Human Renal Cell Carcinoma Cells

Lisa Drew, Nigel Groome, Trevor J. Hallam, J. Roger Warr and Martin G. Rumsby	**429**	Changes in Protein Kinase C Subspecies Protein Expression and Activity in a Series of Multidrug-Resistant Human KB Carcinoma Cell Lines
Maria V. Papadopoulou, Howard S. Rosenzweig, Mira Doddi and William D. Bloomer	**439**	9-[3-(2-Nitro-1-imidazolyl)propylamino]-1,2,3,4-tetrahydroacridine hydrochloride. A Novel DNA-affinic Hypoxic Cell Cytotoxin and Radiosensitizer. Comparison with NLA-1
References Listings in Cancer Research	**449**	
Instructions to Contributors	**Instructions-1**	
Abbreviations Used in this Journal	**Abbreviations-1**	

Vol. 6 Nos. 10/11

CONTENTS

SPECIAL ISSUE
"Proceedings of the International Conference on Bioreductive Drug Activation"
Lake Tahoe, CA USA
August 16–19

Commentary

Chris A. Pritsos	**459**	Introduction
Paul Workman	**461**	Enzyme-Directed Bioreductive Drug Development Revisited: A Commentary on Recent Progress and Future Prospects with Emphasis on Quinone Anticancer Agents and Quinone Metabolizing Enzymes, Particularly DT-Diaphorase
Chris A. Pritsos and Daniel L. Gustafson	**477**	Xanthine Dehydrogenase and its Role in Cancer Chemotherapy
M.A. Naylor	**483**	Novel *N*-oxides as Bioreductive Drugs
David Ross, Howard Beall, Robert D. Traver, David Siegel, Roger M. Phillips and Neil W. Gibson	**493**	Bioactivation of Quinones by DT-diaphorase, Molecular, Biochemical, and Chemical Studies
Alan C. Sartorelli, William F. Hodnick, Michael F. Belcourt, Maria Tomasz, Bruce Haffty, James J. Fischer and Sara Rockwell	**501**	Mitomycin C: A Prototype Bioreductive Agent

Clinical Research

Jens Overgaard	**509**	Clinical Evaluation of Nitroimidazoles as Modifiers of Hypoxia in Solid Tumors
Jaap Verweij, Steiner Aamdal, Jan Schellens, Ineke Koier and Birthe Lund	**519**	Clinical Studies with EO9, a New Indoloquinone Bioreductive Alkylating Cytotoxic Agent

Laboratory Research

Pius Joseph, Tao Xie, Yuehang Xu, and Anil K. Jaiswal	**525**	NAD(P)H: Quinone Oxidoreductase$_1$ (DT-diaphorase): Expression, Regulation, and Role in Cancer

Laurence H. Patterson, Michael R. Craven, Geoffrey R. Fisher and Paul Teesdale-Spittle 533 Aliphatic Amine N-oxides of DNA Binding Agents as Bioreductive Drugs

Garth Powis, John E. Oblong, Pamela Y. Gasdaska, Margareta Berggren, Simon R. Hill and D. Lynn Kirkpatrick 539 The Thioredoxin/Thioredoxin Reductase Redox System and Control of Cell Growth

D. Lynn Kirkpatrick, Issam Abu Sa'da, Wayne Chernoff and Miles Kuperus 545 Disulfide Cytotoxicity under Hypoxia

Reference Listings in Cancer Research 553

Instructions to Contributors **Instructions-1**

Abbreviations Used in this Journal **Abbreviations-1**

Vol. 6 No. 12

CONTENTS

Clinical Research

Barry J. Roseman, Andrew Bollen, Jennie Hsu, Kathleen Lamborn and Mark A. Israel 561 Annexin II Marks Astrocytic Brain Tumors of High Histologic Grade

Laboratory Research

Mark J. Cooper, John J. Haluschak, Doug Johnson, Stuart Schwartz, Laura J. Morrison, Mara Lippa, Georgia Hatzivassiliou and June Tan 569 p53 Mutations in Bladder Carcinoma Cell Lines

Francois J. Geoffroy, Carmen J. Allegra, Birandra Sinha and Jean L. Grem 581 Enhanced Cytotoxicity with Interleukin-1α and 5-Fluorouracil in HCT116 Colon Cancer Cells

Aristide Floridi, Rosaria Barbieri, Rossana Pulselli, Maurizio Fanciulli and Edoardo Arcuri 593 Effect of the Local Anesthetic Bupivacaine on the Energy Metabolism of Ehrlich Ascites Tumor Cells

Jan Alenfall, Roland d'Argy and Satish Batra 603 Whole-Body Autoradiographic Study of [^{3}H]-PK 11195 Distribution in Dunning AT-1 Tumour-Bearing Rats

Jeffrey B. Kaplan 611 Biological Activity of Human N-*ras* and K-*ras* Genes Containing the Asn17 Dominant Negative Mutation

Reference Listings in Cancer Research 617

Contents and Author Index for Volume 6, 1994 625

Instructions to Contributors **Instructions-1**

Abbreviations Used in this Journal **Abbreviations-1**